PATENT ABSTRACTS OF JAPAN

(11) Publication number:

05-239493

(43) Date of publication of application: 17.09.1993

(51) Int. CI.

C11D 1/86 //(C11D 1/86

C11D 1:68

C11D 1:62 C11D 3:37

C11D 1:22

C11D 1:29

(21) Application number : 04-043368

(71) Applicant: KAO CORP

(72) Inventor: TAGATA HIDEJI

(22) Date of filing:

28. 02. 1992

IWAMOTO YOSHIHIRO

ISHIKURA AKIKO

SAI FUMIO

(54) LIQUID DETERGENT COMPOSITION FOR CLOTHES

(57) Abstract:

PURPOSE: To prepare the subject composition improved in detergency by mixing a specified alkyl glycoside, cationic surfactant, aminated silicone (derivative) and anionic surfactant.

CONSTITUTION: 5-70wt. % alkyl glycoside of formula I [wherein R1 is linear or branched 8-18C alkyl (phenyl) or alkenyl; R2 is 2-4C alkylene; G is a residue of a 5-6C reducing sugar; (x) is 0 to 5 on average; and (y) is 1 to 10 on average] is mixed with 0.5-10wt.% cationic surfactant of formula II [wherein at least one of R3 to R6 is 14-20C alkyl, and the rest are each 1-50 (hydroxy) alkyl or (CH2CH2O) m-H; (m) is such a number that the average number of ethylene oxide molecules added is 2 to 30 in the molecule; and x is halogen, CH3SO4 or CH3CH2SO4], 0.05-5wt. % aminated silicon (derivative) having a molecular weight of 2,000 to 15,000 and 0.5-10wt.% of at least one anionic surfactant selected from alkylbenzene sulfates, etc.

 \mathbb{R}_1 $(\mathbb{Q}\mathbb{R}_2)_{\mathcal{X}}\mathbb{Q}_{\mathcal{Y}}$

j

$$R_{0}$$
 N
 R_{0}
 R_{0}
 R_{0}

LEGAL STATUS

[Date of request for examination]

03.07.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998, 2003 Japan Patent Office